

MINISTRY OF HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Therapeutic Dentistry
Academic year 2023-2024

SYLLABUS OF THE ACADEMIC COMPONENT
«NURSING IN DENTISTRY»

Elective educational component
Form of education full-time
Field of science 22 «Health»
Specialty 223 «Nursing»
Education and professional program «Nursing»
The first (bachelor's) level of higher education
Course third (4 years of study)

The syllabus of the educational
component was considered at the
meeting of the Department of the
Therapeutic dentistry
Protocol of
"12" June 2023 № 17
Head of department

 E. M. Ryabokon

Approved by Methodical commission
of KhNMU
of problems of general and pre-
professional training of dental profile
Protocol of
"16" June 2023 № 3
Head

 G.P. Ruzin

Compliers of the syllabus: Doctor of Medicine, Professor of the Department of Therapeutic Dentistry Garmash Olga Volodymyrivna

DATA ABOUT THE TEACHERS WHO TEACH THE EDUCATIONAL COMPONENT

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Page in MOODLE

<https://distance.knmu.edu.ua/course/index.php?categoryid=51>

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Face-to-face consultations: by prior agreement according to the schedule of the department on the basis of the department;

Online consultations: on Moodle, Zoom or Google Meet platforms according to the schedule;

Location: the classes are held at the University Dental Centre of KhNMU, Kharkiv, 51 Peremogy Ave., Department of Therapeutic Dentistry, remotely - in Moodle, Zoom or Google Meet platforms.

INTRODUCTION

The syllabus of the educational component "Nursing in Dentistry" is compiled in accordance with the educational and professional program (hereinafter referred to as "Nursing") "Nursing" and the Standard of Higher Education of Ukraine (hereinafter referred to as Standard), first (bachelor's) level, field of knowledge 22 "Health Care", specialty "Nursing".

The course program determines the prerequisites for access to education, the orientation and main focus of the program, the amount of ECTS credits required to obtain a bachelor's degree, the list of general and special (professional) competencies, the normative and variable content of specialist training, formulated in terms of learning outcomes and control requirements quality of higher education.

The department welcomes qualified education seekers of any race, national or ethnic origin, sex, age, disability, religion, sexual orientation, gender identity, veteran status, or marital status to all rights, privileges, programs, and activities, which are provided to education seekers of university education.

<https://distance.knmu.edu.ua/course/view.php?id=5242>

Description of the educational component (abstract).

The optional course covers the main issues of dentistry: diagnosis, methods of treatment and prevention of the main dental diseases. The issue of materials science in dentistry is considered. The issue of emergency conditions in dentistry is considered. Considerable attention is paid to infection control in health care institutions of the stomatological profile. The main tasks of a nurse in dental offices of various profiles are presented. Peculiarities of communication with dental patients are considered.

The subject of study of the educational component consists of exercises and measures to assist the dentist in the treatment and prevention of inflammatory, destructive productive and other processes in the maxillofacial area of a person.

Teaching is conducted according to the principles of evidence-based medicine using the current guidelines of world professional societies.

The course covers the main practical and theoretical aspects of a nurse's activity in dentistry.

The syllabus is arranged using modern pedagogical principles of organizing the educational process of higher education.

Interdisciplinary connections. The educational component "Nursing in dentistry" has links with such educational components as "Biological and bioorganic chemistry", "Physiology", "Human anatomy", "Medicinal chemistry", "Histology, cytology and embryology", "Clinical anatomy and operative surgery", "Pharmacology" and integrates with these educational components.

The educational component is optional.

Pre-requisites and post-requisites of the educational component in accordance with the sample curriculum, the study of the educational component "Nursing in dentistry" is carried out when the education seeker acquires relevant knowledge of the main basic educational components: medical biology, medical and biological physics, human anatomy, physiology, examination and assessment of the state of health human etc.

In turn, the educational component "Nursing in dentistry" forms the basis for the education seeker's study of the next clinical educational component, which involves "vertical" integration with these educational components and the formation of skills in the process of further training in professional activities and obtaining the first (educational and scientific) level higher education.

Link to the page of the educational component in the MOODLE system:

<https://distance.knmu.edu.ua/course/view.php?id=5242>

1. PURPOSE AND OBJECTIVES OF THE EDUCATIONAL COMPONENT

1.1. The purpose of studying the educational component "Nursing in dentistry" is the formation of the basics of clinical thinking and the acquisition of professional competences in examining the patient and assessing health and the main manifestations of dental diseases in compliance with the principles of the nursing process, by the education seeker. The program provides theoretical, practical and research training. The purpose of teaching is to prepare a competitive, highly qualified, competent specialist in the specialty "Nursing", capable of solving practical problems and tasks in the field of health care using the provisions, theories and methods of fundamental, medical and clinical sciences.

1.2. The main tasks of studying the educational component "Nursing in dentistry" is: to learn the key concepts of dentistry. Be able to fill out medical and nursing documentation. To study the main nosological forms of dental diseases (caries, complications of caries, non-carious lesions of teeth, periodontal diseases, stomatitis). To study the algorithms of assistance in emergency situations in dentistry. Get acquainted with new modern methods of infection control in health care institutions of the dental profile. Get acquainted with modern methods of prevention of the main dental diseases (caries, complications of caries and non-carious lesions of teeth, periodontal diseases, stomatitis). To acquire practical skills and theoretical knowledge to help a doctor at a dental appointment. Carry out preventive measures. Adhere to the principles of ethics and deontology in medicine. To form motivational aspects regarding the improvement of one's professional knowledge and skills.

The main tasks of the study of the educational component are the acquisition by education seekers of competencies in accordance with the general and professional competencies of the educational and professional program "Nursing" of the first level of higher education in specialty 223 "Nursing".

1.3. Competencies and learning outcomes.

1.3.1. The study of the academic component ensures that education seekers master the following **competencies**:

- **integral (IC):** a bachelor of nursing is able to solve complex specialized tasks and practical problems in the field of nursing or in the learning process, which involves the application of certain theories and methods of the relevant science and is characterized by the complexity and uncertainty of conditions.

- **general (GC):**

GC 03. The ability of abstract thinking, analysis and synthesis,

GC 04. The ability to apply knowledge in practical activities,

GC 05. Knowledge and understanding of the subject area and understanding of professional activity,

GC 10. The ability to work in a team.

- **special (professional, subject) (PC):**

PC 01. The ability to effectively apply a set of professional skills, medical supplies, interventions and actions when assessing the functional state of patients/clients, preparing them for diagnostic studies and taking biological material for laboratory studies.

PC 06. The ability to help the doctor to diagnose: to determine the preliminary, clinical, final, accompanying diagnosis, emergency conditions,

PC 11. The ability to help the doctor to perform medical and dental manipulations,

PC 12. The ability to help the doctor to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial area.

1.3.2. The study of the educational component ensures that education seekers acquire the following program learning outcomes:

PLO 1. Conduct nursing subjective and objective examination of various organs and systems of the patient and evaluate the obtained data. At the health care institutions and at home, by communicating with patients of different age groups, their relatives or close relatives of a sick child and his parents, be able to collect complaints, past history of illness, past history of life. Allergological past history, epidemiological past history, evaluate anamnestic data.

PLO 2. Carry out nursing diagnosis: identify and assess the patient's problems. At the health care institutions, at home, predictable circumstances, to be able to identify

the real problems of the patient, assess their priority and establish a nursing diagnosis.

PLO 3. Plan nursing interventions. At the health care institutions, at home and under unforeseen circumstances, be able to make a plan of nursing interventions to solve real and related problems of patients of various ages.

PLO 4. Monitor the work of junior medical staff and the state of inventory.

At the health care institutions, in accordance with job duties, in order to comply with the sanitary and anti-epidemic regime, be able to:

- Conduct training of junior medical personnel on the performance of functional duties and occupational health and safety; monitor compliance with safety rules by junior medical personnel.
- Monitor the work of junior medical staff; control the implementation of the rules of the internal procedure by staff and patients; monitor compliance with measures of sanitary and hygienic regime in wards and medical offices.

PLO 5. Execute nursing administration.

At the health care institutions, in order to implement organizational and management competencies, to be able to:

- make management decisions, ensure their implementation based on the application of nursing management models;
- ensure the implementation of orders and resolutions on health care issues;
- master the functional duties of the head of nursing services;
- know the procedure for licensing and accreditation of medical and preventive facilities, laboratories of various profiles, etc.

PLO 6. To ensure a healthy microclimate in the team. Using the principles of nursing ethics and deontology, the rules of interpersonal communication in order to create a favorable psychological microclimate, be able to: - communicate with the patient and members of his family or close environment, medical staff;

- to solve ethical and deontological problems in the process of working with the patient and his family members;
- consider and analyze professional mistakes in the team;
- conduct training for junior and technical personnel.

PLO 7. Participate in monitoring of healthy and sick population, rehabilitation and dispensary supervision. At the health care institutions, at home and in the community, using the current orders of the Ministry of Health of Ukraine, in order to form, preserve and improve the health of the adult and child population, be able to:

- keep records of dispensary population groups;
- to calculate and analyze statistical indicators of dispensation efficiency;
- to conduct explanatory work among patients of different dispensary groups;
- keep records of health groups;
- calculate and evaluate individual indicators and indicators of the complex effect of the microclimate on the human body;
- determine the stages of medical and social rehabilitation of the patient, tasks for each stage;

- make a complex of rehabilitation measures depending on the profile, course, period of the disease or injury; - conduct a census of the child population.

PLO 8. To perform medical manipulations in order to ensure a sanitary and anti-epidemic regime

PLO 12. It is necessary to perform medical manipulations in order to take measures to stabilize the functional state of the body.

PLO 14. To be able to prepare the patient, collect and direct biological material for laboratory and instrumental research.

PLO 16. The ability to be accurate in performing interdependent nursing functions.

PLO 20. Properly maintain appropriate medical records.

1.3.3. The study of this educational component forms social skills in education seekers:

- communication (implemented through: the method of working in groups and brainstorming during the analysis of clinical cases, the method of presenting the results of independent work and defending them in a group),
- teamwork (implemented through: the method of working in groups and brainstorming during the analysis of clinical cases),
- conflict management (implemented through: business games),
- time management (implemented through: self-organization method during classroom work in groups and independent work),
- leadership skills (implemented through: the method of presenting the results of independent work and their protection in the group).

2. INFORMATION SCOPE OF THE EDUCATIONAL COMPONENT

Name of indicators	Field of knowledge, specialization, educational and qualification level	Characteristics of the educational component
		intramural form of education
The number of credits is 3.0	Branch of knowledge: <u>22 "Health care"</u> (code and name)	Elective educational component
The total number of hours - 90	Specialty: <u>223 "Nursing" - bachelors</u> (code and name)	The year of preparation: 3rd
		Semester 5th, 6th
		Lectures - 0 hours
Hours for full-time study: classrooms - 36 individual work of an education seeker - 54	Educational and qualification level: first (bachelor's) level <u>of higher education</u> EPP «Nursing»	Practical, seminar - 36 hours
		Individual work -54 hours
		Individual tasks
		Type of final control: test

2.1. Description of the educational component

2.2.1 Lectures -not provided

2.2.2 Seminar classes -not provided

2.2.3 Practical classes

	Topic title	Quantity of hours	Teaching methods	Forms of control
1	The subject and tasks of dentistry. History of development. The structure of the dental service. Organization of dental care for the population.	2	Explanatory story, conversation, illustration, demonstration, presentation, , video films	Current control of the theoretical knowledge. Oral interview, written tests or survey.
2	Medical ethics. Nurse's workplace equipment. Documentation in a hospital and polyclinic (logs of sterilization of instruments,	2	Explanatory story, conversation, illustration, demonstration,	Current control of the theoretical knowledge. Oral interview, written tests or survey.

	turning on "Panmed", log of accidents, log of occupational safety briefings, etc.).		presentation, video films	
3	Anatomical and physiological structure of oral cavity organs.	2	Explanatory story, conversation, illustration, demonstration, presentation, video films	Current control of the theoretical knowledge. Oral interview, written tests or survey.
4	Diagnosis of caries and non-carious lesions of the teeth, pulp diseases, periodontal diseases, diseases of the mucous membrane of the oral cavity.	2	Explanatory story, conversation, illustration, demonstration, presentation, , video films, case method	Current control of the theoretical knowledge. Oral interview, written tests or survey.
5	The use of radiography for the diagnosis of dental diseases.	2	Explanatory story, conversation, illustration, demonstration, presentation, video films, case method	Current control of the theoretical knowledge. Oral interview, written tests or survey.
6	Functional duties of a nurse in various dental departments of a polyclinic and a hospital. Peculiarities of a nurse's work at a therapeutic appointment. Devices, accessories and modern filling materials, which are used during dental manipulations in the therapeutic office.	2	Explanatory story, conversation, illustration, demonstration, presentation, video films, discussion, round table, business, role-playing, simulation game, modeling processes and situations	Current control of the theoretical knowledge. Oral interview, written tests or survey.
7	Peculiarities of the work of a nurse at an orthopedic dentistry department. Tools and materials used in the orthopedic office. The structure and principles of operation of dental facilities. Rules of operation and care	2	Explanatory story, conversation, illustration, demonstration, presentation, video clips, video films, discussion, round table,	Current control of the theoretical knowledge. Oral interview, written tests or survey.

	of dental equipment.Modern dental impression materials.		business, role-playing, simulation game, modeling processes and situations	
8	Peculiarities of the work of a nurse at a surgical department. Tools and materials used in the surgical department (office). Preparation of tools for surgical interventions in dentistry. Peculiarities of patient care in the maxillofacial department.	2	Explanatory story, conversation, illustration, demonstration, presentation, , video films, discussion, round table, business, role-playing, simulation game, modeling processes and situations	Current control of the theoretical knowledge. Oral interview, written tests or survey.
9	Peculiarities of a nurse's work at pediatric dental office: office equipment. Modern filling materials and tools used in pediatric dentistry practice.	2	Explanatory story, conversation, illustration, demonstration, presentation, , video films, discussion, round table, business, role-playing, simulation game, modeling processes and situations	Current control of the theoretical knowledge. Oral interview, written tests or survey.
10	Peculiarities of a nurse's work in periodontological and physiotherapy offices. Tools and materials used in periodontological and physiotherapy offices.	2	Explanatory story, conversation, illustration, demonstration, presentation, video films, discussion, round table, business, role-playing, simulation game, modeling processes and situations	Current control of the theoretical knowledge. Oral interview, written tests or survey.

11	Professional oral hygiene. Subjects and means.	2	Explanatory story, conversation, illustration, demonstration, presentation, video films	Current control of the theoretical knowledge. Oral interview, written tests or survey.
12	The main directions of prevention of dental diseases.	2	Explanatory story, conversation, illustration, demonstration, presentation, video clips, video films	Current control of the theoretical knowledge. Oral interview, written tests or survey.
13	Pharmacotherapy in dentistry.	2	Explanatory story, conversation, illustration, demonstration of the presentation, video films, case method	Current control of the theoretical knowledge. Oral interview, written tests or survey.
14	Asepsis and antiseptics. Infection control in dentistry. Problems of nosocomial infection. HIV infection in dentistry. Disinfection and sterilization of dental equipment and instruments.	2	Explanatory, conversation, illustration, demonstration of the presentation, video films, solution situational and practical tasks	Current control of the theoretical knowledge. Oral interview, written tests or survey.
15	Emergencies in dentistry and first aid.	2	Explanatory, conversation, demonstration of the presentations, video films and illustrations. Discussion, round table,, role-playing, simulation game, modeling of the processes and situations, individual	Current control of the theoretical knowledge. Oral interview, written tests or survey.

			(group) creative work	
16	Psychological features of communication with patients of different ages.	2	Explanatory, conversation, demonstration of the presentations, video films and illustrations. Discussion, round table,, role-playing, simulation game, modeling of the processes and situations, individual (group) creative work	Current control of the theoretical knowledge. Oral interview, written tests or survey.
17	Reception of practical skills (credit).	2	final control	test
18	Final lesson (credit).	2	final control	test
	Total	36		

Teaching methods. During lectures and practical lessons, it is recommended to use such pedagogical methods: problematic education, business games, «brain storm», work in groups, developing education, multilevel training (taking into account the abilities of different education seekers), heuristic conversations, debates and discussions, preparing report-presentations, method of project training (preparing by education seeker the independent research project), excursions to museums and exhibitions.

Topics for self-studying

	Topic name	Number of hours	Teaching methods	Forms of control
1.	Preparation to practical classes - theoretical preparation and			

	development of practical skills.			
1.1	The subject and tasks of dentistry. History of development. The structure of the dental service. Organization of dental care for the population.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.2	Medical ethics. Nurse's workplace equipment. Documentation in a hospital and polyclinic (logs of sterilization of instruments, turning on "Panmed", log of accidents, log of occupational safety briefings, etc.).	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.3	Anatomical and physiological structure of oral cavity organs.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.4	Diagnosis of caries and non-carious lesions of the teeth, pulp diseases, periodontal diseases, diseases of the mucous membrane of the oral cavity.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.5	The use of radiography for the diagnosis of dental diseases.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.6	Functional duties of a nurse in various dental departments of a polyclinic and a hospital. Peculiarities of a nurse's work at a therapeutic appointment. Devices, accessories and modern filling materials, which are used during dental manipulations in the therapeutic office.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.7	Peculiarities of the work of a nurse at an orthopedic	3	Presentations, videos, video	Oral survey acquirers

	dentistry department. Tools and materials used in the orthopedic office. The structure and principles of operation of dental facilities. Rules of operation and care of dental equipment. Modern dental impression materials.		films, webinar, virtual consultation	higher education
1.8	Peculiarities of the work of a nurse at a surgical department. Tools and materials used in the surgical department (office). Preparation of tools for surgical interventions in dentistry. Peculiarities of patient care in the maxillofacial department.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.9	Peculiarities of a nurse's work at pediatric dental office: office equipment. Modern filling materials and tools used in pediatric dentistry practice.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.10	Peculiarities of a nurse's work in periodontological and physiotherapy offices. Tools and materials used in periodontological and physiotherapy offices.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.11	Professional oral hygiene. Subjects and means.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.12	The main directions of prevention of dental diseases.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.13	Pharmacotherapy in dentistry.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education

1.14	Asepsis and antiseptics. Infection control in dentistry. Problems of nosocomial infection. HIV infection in dentistry. Disinfection and sterilization of dental equipment and instruments.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.15	Emergencies in dentistry and first aid.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
1.16	Psychological features of communication with patients of different ages.	3	Presentations, videos, video films, webinar, virtual consultation	Oral survey acquirers higher education
2.1	Preparation for practical skills.	3	final control	test
2.2	Preparation for the final control	3	final control	test
	Total	54		

Types of control:

Current: oral survey of higher education seekers, written control of theoretical knowledge according to options, presentation of work results in small groups.

Intermediate: defence of the results of an individual task.

Additional: public presentation of a scientific product (theses, article...).

Summary: test.

3. EVALUATION CRITERIA

3.1 Evaluation of the success of higher education seekers carried out on the basis of the current "Instructions on the evaluation of educational activities under the European credit transfer system for the organization of the educational process" (order of the rector of KhNMU No. 181 dated 08/21/2021).

The current educational activity (CEA) of higher education seekers is monitored by the teacher of the academic group, after they have mastered each topic of the educational component, and grades are given using the 4-point (national) system. For seekers of higher education, current grades also include a grade for completed individual tasks. At the end of the semester, the average grade (to the

nearest hundredth) for the CEA is automatically obtained by the teacher using the electronic journal of the ACU system. The final grade for the CEA in the semester is defined as the arithmetic average of the national grades for each subject and P&P, rounded to 2 decimal places. The sum of points for the CEA also includes the assessment for the completed individual work.

Recalculation of the average grade for CEA into a multi-point scale for educational components that end with credit (Table 3.1). The form of final control of the degree of mastery of the content of the educational component is the assessment, which is conducted by the teacher of the academic group according to the schedule (at the last lesson). Assessment is a process during which the following are checked: the level of theoretical knowledge obtained during training; creative thinking; skills of individual work; competences (ability to synthesize acquired knowledge and apply it in solving practical tasks). Certain criteria are used for the correct assessment of the readiness of higher education seekers for the relevant educational component (clause 3.2).

Table 3.1 – Recalculation of the average score for current activities in a multi-point scale (for educational components ending with a credit).

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.22-4.23	169	3.45-3.46	138
4.97-4.99	199	4.19-4.21	168	3.42-3.44	137
4.95-4.96	198	4.17-4.18	167	3.4-3.41	136
4.92-4.94	197	4.14-4.11114.16	166	3.37-3.39	135
4.9-4.91	196	4.12-4.13	165	3.35-3.36	134
4.87-4.89	195	4.09-4.11	164	3.32-3.34	133
4.85-4.86	194	4.07-4.08	163	3.3-3.31	132
4.82-4.84	193	4.04-4.06	162	3.27-3.29	131
4.8-4.81	192	4.02-4.03	161	3.25-3.26	130
4.77-4.79	191	3.99-4.01	160	3.22-3.24	129
4.75-4.76	190	3.97-3.98	159	3.2-3.21	128
4.72-4.74	189	3.94-3.96	158	3.17-3.19	127
4.7-4.71	188	3.92-3.93	157	3.15-3.16	126
4.67-4.69	187	3.89-3.91	156	3.12-3.14	125
4.65-4.66	186	3.87-3.88	155	3.1-3.11	124
4.62-4.64	185	3.84-3.86	154	3.07-3.09	123
4.6-4.61	184	3.82-3.83	153	3.05-3.06	122
4.57-4.59	183	3.79-3.81	152	3.02-3.04	121
4.54-4.56	182	3.77-3.78	151	3-3.01	120
4.52-4.53	181	3.74-3.76	150	Less3	Not enough
4.5-4.51	180	3.72-3.73	149		
4.47-4.49	179	3.7-3.71	148		
4.45-4.46	178	3.67-3.69	147		
4.42-4.44	177	3.65-3.66	146		
4.4-4.41	176	3.62-3.64	145		
4.37-4.39	175	3.6-3.61	144		

4.35-4.36	174	3.57-3.59	143
4.32-4.34	173	3.55-3.56	142
4.3-4.31	172	3.52-3.54	141
4.27-4.29	171	3.5-3.51	140
4.24-4.26	170	3.47-3.49	139

Assessment of individual work of education seekers

Assessment of the individual work of education seekers, which is provided for in the topic along with classroom work, is carried out during the current control of the topic in the corresponding classroom session.

Evaluation of the final lesson

Final lesson (FL) must be held during the semester according to the schedule, during classes. Admission of the FL is carried out by the teacher of the academic group or the exchange of adjacent groups between teachers is carried out.

For preparation to the FL, relevant materials are presented at the information stand of the department, in the methodological office of the department:

- a list of theoretical questions (including questions from independent work);
- list of practical skills;
- criteria for assessing the knowledge and skills of education seekers;
- the schedule of education seekers completing missed classes during the semester.

Conducting the final lesson:

1. Evaluation of the acquisition of practical skills (evaluation criteria - "passed" or "failed"). The level of assimilation of practical skills by education seekers is assessed by the teacher based on the results of practical classes in the relevant section;

2. During the evaluation of the knowledge of the education seeker on theoretical issues included in this FL, the education seeker is given a traditional assessment, which is converted into a multi-point scale along with the grades for CEA.

3.2 – Criteria for evaluating the results of educational activities of higher education seekers from educational components that end with credit

The grade "excellent" is assigned to education seekers who have demonstrated a detailed, systematic and deep knowledge of the curriculum material, the ability to freely perform the tasks provided for by the program, and who have mastered the basic and are familiar with the additional literature recommended by the program.

The grade "good" is awarded to those who have demonstrated systematic knowledge of therapeutic dentistry and are able to independently supplement and update it during further educational work and professional activity.

The grade "satisfactory" is assigned to education seekers who answer only those questions that are included in the mandatory minimum list; that are familiar with the basic literature that is recommended by the program.

The grade "unsatisfactory" is given to education seekers who have discovered gaps in their knowledge of the main curriculum material, who have made fundamental mistakes in the performance of the tasks provided for by the program, and who cannot continue their education without additional classes in therapeutic dentistry.

During the evaluation of the knowledge of the higher education seekers, which is included for the final class (FC), a grade is given according to the national scale, which is calculated as a grade according to the CIS (Table 3.3).

Table 3.3 – Correspondence of scores on a 200-point scale, a 4-point (national) scale and the ECTS scale

Assessment on a 200-point scale	Evaluation on the ECTS scale	Assessment on a 4-point (national) scale
180–200	A	Perfectly
160–179	B	Fine
150–159	C	Fine
130–149	D	Satisfactorily
120–129	E	Satisfactorily
Less than 120	F, Fx	Unsatisfactorily

The evaluation of the educational component is issued only to those who have completed all the final classes and the test. Higher education seekers who have not fulfilled the requirements of the curriculum are assigned an FX grade if they were admitted to take the test, but did not pass it. A grade of F is assigned to education seekers who are not allowed to take the test.

3.2 Questions for assessment:

The list of theoretical questions of the Elective educational component "Nursing in dentistry"

1. The subject and tasks of dentistry.
2. Organization of dental care for the population.
3. The structure of the dental service, dental polyclinic and hospital. Registry, treatment departments: therapeutic, surgical, orthopedic, and offices: x-ray and physiotherapeutic.
4. Basic legal documents in dentistry.
5. Anatomical and physiological structure of oral cavity organs.
6. Diagnosis of the main dental diseases. Caries, non-cariou lesions, pulpitis, periodontitis, diseases of periodontal tissues and oral mucosa.
7. Additional examination methods. Use of radiographic method.
8. Requirements for dental offices.
9. Equipment and documentation in various dental offices. Structure and principle of operation of dental units, rules of operation and maintenance of the equipment.

10. Tools and materials used in therapeutic, surgical, orthopedic and physiotherapy offices.
11. Nursing Ethical Considerations.
12. The main directions of a nurse's activity are preparatory, medical-diagnostic and sanitary-educational work.
13. Dental office equipment, nurse's workplace equipment.
14. Responsibilities of a nurse in a therapeutic dental office. Dental tools of the therapeutic office.
15. Modern sealing materials and rules for working with them. Materials for sealing root canals of temporary and permanent teeth.
16. Pharmacotherapy in dentistry. Modern anesthetics.
17. Responsibilities of the nurse of the office of surgical dentistry and the dental operating room: equipment, tools. Preparation of the surgeon's workplace.
18. Responsibilities of a nurse in the office of orthopedic dentistry: cabinet equipment. Modern tools and impression materials.
19. Duties of a nurse in a pediatric dental office: office equipment. Modern filling materials used in the practice of pediatric dentistry.
20. Responsibilities of the nurse of periodontological and physiotherapy offices: equipment of periodontological and physiotherapy offices.
21. Duties of senior and chief nurses of dental polyclinics and hospitals.
22. Storage of medicines and narcotic drugs in offices.
23. Rules of asepsis and antiseptics.
24. Characteristics of aseptic and antiseptic methods.
25. Nurse's hand hygiene in dentistry.
26. Methods of pre-sterilization cleaning and disinfection of dental instruments and equipment (surface disinfection).
27. Methods of sterilization of dental instruments: boiling in a sterilizer, dry heated air, steam under pressure in an autoclave.
28. Sterilization of linen and dressing material.
29. Preparing the autoclave for work.
30. Checking the quality of sterilization of dressing material and tools.
31. Chemical sterilization (cold sterilization).
32. Nosocomial infections.
33. Prevention of HIV infection and hepatitis B and C.
34. Asphyxia - clinic, differential diagnosis, treatment.
35. Fainting - causes, clinic, differential diagnosis, treatment.
36. Collapse - causes, clinic, differential diagnosis, treatment, prevention.
37. Hyperglycemic coma - causes, clinic, differential diagnosis, treatment, prevention.
38. Hypoglycemic coma - causes, clinic, differential diagnosis, treatment, prevention.
39. Hypertensive crisis - causes, clinic, differential diagnosis, treatment, prevention.
40. Bronchial asthma - causes, clinic, differential diagnosis, treatment, prevention.

41. Hematoma - etiology and pathogenesis, clinic, treatment, prevention.
42. Epileptic attack - clinic, differential diagnosis, treatment, prevention.
43. Post-extraction bleeding - etiology and pathogenesis, clinic, differential diagnosis, treatment, prevention.
44. Traumatic bleeding - differential diagnosis, treatment.
45. Anaphylactic shock - differential diagnosis, forms of anaphylactic shock, emergency aid scheme for anaphylactic shock.
46. Rules and psychological features of communication with patients of different ages.
47. Norms of behavior of medical workers.

A list of practical skills for credit of the Elective educational component "Nursing in dentistry"

1. To fill out instrument sterilization logs, "Panmed" power-on log, accident log, occupational health and safety training log, etc.).
2. To prepare the dentist's table for patient reception.
3. To perform pre-sterilization cleaning and disinfection of dental tools and equipment.
4. To sterilize dental instruments, suture dressing material.
5. To prepare a sterile table.
6. To process endodontic instruments.
7. To process the handpieces.
8. To put the tools in a box for further autoclaving.
9. To control the sterilization of dental instruments.
10. To carry out retraction of the soft tissues of the oral cavity with the help of a mirror.
11. To be able to use a dental cheek retractor.
12. To perform decontamination of dental impressions.
13. Take care of the patient in the surgical dental department.
14. To carry out physiotherapeutic procedures.
15. To provide first aid for emergency dental patients.
16. To prepare lining and sealing materials, as well as various impression materials.
17. To assist the doctor in carrying out various medical procedures (filling, root canal filling, rubber dam application, tooth extraction, etc.)
18. To assist the doctor in the removal of soft and hard dental deposits (tartar) using the ultrasonic method.
19. To fill out medical documentation on post-contact prevention of HIV infection.

CONTENTS OF THE EDUCATIONAL COMPONENT:

Topic 1. The subject and tasks of dentistry. History of development. The structure of the dental service. Organization of dental care in population. The subject

and tasks of dentistry. The history of the development of dentistry in Ukraine. The structure of the dental service. Organization of the work of a dental office, dental department, dental polyclinic and hospital.

Topic 2. Medical ethics. Nurse's workplace equipment. Documentation in a hospital and polyclinic (logs of sterilization of instruments, turning on "Panmed", log of accidents, log of occupational safety briefings, etc.). Concept of ethics. Concept of deontology. The concept of medical secrecy. Moral qualities of a nurse in dentistry. Medical ethics and deontology in dentistry. Organization of the workplace of a dental nurse. Basic regulatory and legal documents in dentistry.

Topic 3. Anatomical and physiological structure of oral cavity organs. The structure of the tongue and mucous membrane of the oral cavity. Anatomical structure of teeth and gums. Physiological features of the structure of the oral cavity depending on age.

Topic 4. Diagnosis of caries and non-carious lesions of the teeth, pulp diseases, periodontal diseases, diseases of the mucous membrane of the oral cavity. Clinic and diagnosis of major dental diseases. The methods of examination in dentistry.

Topic 5. The use of radiography for the diagnosis of dental diseases. Types of X-ray machines. Recommendations for prescribing dental radiography. Limitation of exposure. Patient and operator protection. Warning about radiation risks. Cone-beam computed tomography in dentistry.

Topic 6. Functional responsibilities of a nurse in various dental departments of a polyclinic and hospital. Peculiarities of a nurse's work at a therapeutic department. Devices and accessories and modern filling materials, which are used during dental manipulations in the therapeutic office. Job description of dental nurse and head nurse. The structure of the dental polyclinic. Requirements for a dental office. Structure and principle of operation of dental facilities, rules of operation and care of the equipment. The composition of the first-aid kit. Storage of medicines and narcotic medicinal preparations in the dental offices, dental polyclinics and in hospitals of a dental profile. Devices and accessories and modern filling materials (composites, glass ionomer cements, sealants, compomers, ormokers, materials for filling root canals of permanent teeth).

Topic 7. Peculiarities of a nurse's work at an orthopedic dentistry department. Tools and materials used in the orthopedic office. The structure and principles of operation of dental facilities. Rules of operation and care of dental equipment. Modern dental impression materials. The structure of the dental orthopedic office. The main requirements for the work of a nurse in an orthopedic office. The main tools and materials used in the orthopedic office.

Topic 8. Peculiarities of a nurse's work at a surgical department. Tools and materials used in the surgical department (office). Preparation of tools for surgical interventions in dentistry. Peculiarities of patient care in the maxillofacial department. The structure of a dental surgical office, department, polyclinic. Basic requirements for the work of a surgical nurse. Basic tools and materials used in the surgical room.

Topic 9. Peculiarities of the work of a nurse in a pediatric dental office: office equipment. Modern filling materials and tools used in pediatric dentistry practice. The structure of the pediatric dental doctor's office, pediatric dentistry department, pediatric dental polyclinic. The main requirements for the work of a nurse in a pediatric dental office. The main tools and materials used in the office of a pediatric dentist.

Topic 10. Peculiarities of a nurse's work in periodontological and physiotherapy offices. Tools and materials used in periodontological and physiotherapy offices. The structure of periodontological and physiotherapy offices. The main requirements for the work of a nurse in periodontological and physiotherapy offices. Basic tools and materials used in periodontological and physiotherapy offices.

Topic 11. Professional oral hygiene. The concept, purpose and stages of professional oral hygiene. Methods of professional oral hygiene. Algorithm for conducting a course of professional oral hygiene. Indicators (markers) for detecting dental deposits. Manual, ultrasonic and air-abrasive tools for removing dental deposits. Chemical means for removing dental deposits. Polishing brushes, cups and pastes. Air-flow and Vector therapy.

Topic 12. Main directions of prevention of dental diseases. Basic issues of prevention of dental diseases. The concept of goal, tasks and methods. Controlled tooth brushing. Items and means of oral hygiene. Toothbrushes, flosses, devices for cleaning the back of the tongue, oral irrigators, toothbrushes, toothpicks, interdental stimulators, items for the care of removable orthopedic and orthodontic appliances. Methods of tooth brushing. Oral hygiene in patients with periodontal tissue diseases.

Topic 13. Pharmacotherapy in dentistry. Anesthetics in dental practice. Medicines for the treatment and prevention of caries. Therapeutic pastes. Medicines for the treatment and prevention of pulpitis (biological method and extirpation method). Pastes for pulp devitalization. Impregnation pastes. Medicines for sealing and retreatment of root canals. Aseptic medicines for the treatment of root canals. Medicines for retro-apical therapy. Medicines for the treatment and prevention of periodontal diseases. Medicines for the treatment of diseases of the mucous membrane of the oral cavity and allergic diseases.

Topic 14. Asepsis and antiseptics. Infection control in dentistry. Problems of nosocomial infection. HIV infection in dentistry. Disinfection and sterilization of dental equipment and instruments. Asepsis and antiseptics. Aseptic: disinfection, sterilization. Aseptic methods. Problems of nosocomial infection. Nurse's hand hygiene in dentistry. HIV infection in dental patients. Emergency post-contact prevention of HIV infection in medical personnel. Preparation of the premises of the dental department. Ways of hands processing. Processing of tools. Disinfection of used tools. Sterilization of instruments. Sterilization of dressing material. Sterilization quality control. Preparation of a sterile table.

Topic 15. Emergencies in dentistry and first aid. Clinic, diagnosis, differential diagnosis and treatment of asphyxia, post-extraction bleeding, hematoma, fainting, collapse, bronchial asthma, epileptic attack, anaphylactic shock, hyperglycemic coma, hypoglycemic coma. Basic medicines for emergency care.

Topic 16. Psychological features of communication with patients of different ages. Norms of behavior of clinic employees. Communication, facial expressions, gestures. Alleviating the patient's fear. Response to complaints. Communication with pediatric and elderly patients and patients with special needs.

3.4. Individual tasks (the list was approved at the department meeting).

The specifics of individual tasks for education seekers are agreed with the teacher. According to the "Instructions for evaluating the educational activities of higher education seekers in KhNMU" the education seeker can increase the assessment by performing individual tasks, which if successful adds up to 10 points. quality incentives.

No s/p	Name of individual tasks
1.	Participation in the Olympiad in the educational component among universities of Ukraine
2.	Participation in conferences with a report
3.	Participation in conferences with a poster presentation
4.	Participation in conferences (confirmed by a certificate)
5.	Participation in professional skill competitions
6.	Scientific publications (articles)
7.	Scientific publications (theses)
8.	Analytical review with a multimedia presentation on the topic of the section
9.	Production of educational visual aids (stand, dummy phantom, etc.)

Assessment of individual tasks of the seeker of education is carried out for the performance of the teacher's tasks:

- report of the essay at the practical session 0-2 points;

- a report with a presentation at a practical session 0-3 points,
- report at scientific and practical conferences of the department, university, writing theses, articles 0-5 points;
- participation in the All-Ukrainian Olympiad - 5-10 points

Points for individual tasks of education seekers (in total no more than 10 points) can be added as encouraging additional points to the final score for the current educational activity, calculated using table 3.4 and included in the evaluation of the educational component.

3.5 Rules for challenging the assessment.

If a education seeker is dissatisfied with the results of the assessment of his / her academic activity and wishes to appeal the assessment of the subject, he / she has the right to apply to the management of the department and / or the dean of the relevant faculty to re-assess his / her knowledge. If the education seeker's requirements are justified, the department / dean's office creates a special commission for re-evaluation. Provisions on the appeal of the results of the final control of higher education seekers of KhNMU (order of the rector of KhNMU dated September 30, 2020 No. 35/2020) (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf) allows you to avoid conflicts during appeals by higher education seekers of the results of final control.

4 EDUCATIONAL COMPONENT POLICY

According to the current "Instructions for the evaluation of educational activities under the European credit transfer system for the organization of the educational process" (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>), higher education seekers must receive an assessment for each the topic of the educational component. The procedure for the liquidation of academic debt is regulated (order of the rector of KhNMU dated 26.12.2019 No. 533) and the Regulation on the procedure for education seekers of KhNMU education to work out educational classes (order of the rector of KhNMU dated 30.09.2020 No. 36/20) (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf). It is important to adhere to the Code of Corporate Ethics of the KhNMU (<https://knmu.edu.ua/golovna/pro-nas/kodeks-korporatyvnoyi-etyky/>). KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender or marital status. All rights, privileges, programs, and types of activities granted to higher education seekers or employees of KhNMU are extended to everyone without exception, subject to proper qualifications. Higher education seekers are expected to be interested in mastering the educational component. A creative approach in its various manifestations is welcome. If you have any questions, please contact the teacher.

Discipline requirements

Written assignments and homework must be submitted in time. In case of questions education seekers can contact the teacher personally or by e-mail which the teacher will provide in the first practical lesson.

During the lecture education seekers are recommended to compose the lesson's summary and keep a sufficient level of silence. It is welcomed to pose the questions to a lecturer.

It is important to follow next rules:

- respect to colleagues;
- tolerance toward others and experience of people;
- receptivity and impartiality;
- ability to respect the person even in a case of disagreement with its thoughts;
- thorough reasoning of own opinion and courage to change it under the influence of counter arguments;
- self-expression when the person avoids the unnecessary generalizations, describes own feelings and forms expectations relying on own thoughts and emotions;
- obligatory work with the recommended sources of information.

The creative approach in its different forms is welcomed. In particular, it is a participation in scientific conferences.

Attendance and behaviour

The education seekers are expected to attend all lectures and practical lessons. In a case of skipping the class it is necessary to work off it according to the department's schedule.

Actions that are allowed during lessons:

- Leave the classroom for a short time in case of necessities and with a permission of teacher;
- To take a photos of presentations;
- To take active part in a course of the lesson.

Prohibited:

- Eating (except people whose special medical situation requires the opposite – in that case the medical confirmation is needed);
- Smoking, consuming of alcohol;
- Rude behaviour, expression of obscenities and offend someone's dignity;
- Gambling;
- To damage the university equipment;
- To make a noise or listen a music in classrooms or corridors during the lessons.

Using of electronic gadgets

Using of electronic gadgets during studying is allowed without restriction except those cases when it may interfere with the ways of objective assessment of education seekers ' knowledge.

Policy for people with the special educational needs

The studying is carried out taking into account the requirements of modern Ukrainian legislation in relation to persons with special educational needs and is regulated by the university.

Recommendations for successful mastering the discipline

In the process of preparation for practical classes education seekers should study the recommended literature. Active participation during the discussion in the classroom is welcome, education seekers should be ready to understand the material in detail, ask questions, express their point of view, discuss.

Incentives and penalties

According to the "Instructions for the evaluation of educational activities in the European credit-transfer system of the educational process in the KhNMU" education seekers can increase the grade for the module by performing individual tasks (making the reports, participation in scientific conferences, competitions, preparation of reviews, etc.) in case of success gives 10 points as an incentive.

Safety precautions

The first lesson includes an explanation of the basic principles of labour protection. Every education seeker should know the location of nearest evacuation exit, the fire extinguisher, how to use it, etc.

Procedure for informing about changes in the syllabus

The possible changes in the syllabus will be announced on the department page of the of the official website of KhNMU, in the department's directory in Moodle, and at the dean-office

5. ACADEMIC INTEGRITY

Successful mastery of the educational component requires compliance with the principles of academic integrity. One of the elements of academic culture that the university instills is the education seeker's understanding of the inadmissibility of any borrowing without proper references. Given this, the main task of teachers is to form education seekers' skills of individual work, interest in learning and socially significant values. The first sessions will provide information on what to consider plagiarism and how to properly conduct a research search According to Art. 42 of the Law of Ukraine "On Education" and the Law of Ukraine "On Higher Education", taking into account the recommendations of NAZYAVO (protocol No. 11 dated 29.10.2019), the KhNMU introduced a system of academic integrity development, the main provisions of which are posted on the website of the Higher Education Institution: Code of Academic Integrity of the KhNMU (order of the rector of

KhNMU dated August 27, 2019 No. 305) (https://knmu.edu.ua/wp-content/uploads/2021/05/kodex_ad.pdf); Provisions on academic integrity and ethics of academic relationships at the Kharkiv National Medical University (order of the rector of KhNMU dated July 2, 2020 No. 165) (https://knmu.edu.ua/wpcontent/uploads/2021/05/polog_ad-1.pdf); Regulations on the Commission on Integrity, Ethics, and Conflict Management of KhNMU (order of the rector of KhNMU dated July 2, 2020, No. 165) (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_komis_ad.pdf); Regulations on the procedure for checking textual documents at the Kharkiv National Medical University - dissertations, reports on scientific research works, scientific publications, materials of scientific forums, educational literature, educational and methodical publications and teaching aids for the presence of textual borrowings (order of the rector of the KhNMU dated 27.08. No. 195 of 2020); Regulations on the preparation and defense of master's theses of education seekers who obtain the degree of higher education "master's" at KhNMU (order of the rector of KhNMU dated 08.27.2019 No. 371) (https://knmu.edu.ua/wpcontent/uploads/2021/05/polog_magistr.pdf).

Copying, use of various software tools, prompts, use of a mobile phone, tablet or other electronic gadgets during class for purposes unrelated to the educational process are not allowed.

KhNMU supports zero tolerance for plagiarism. Higher education seekers are expected to want to constantly increase their own awareness in academic writing. In the first classes, information activities will be held on what exactly is considered plagiarism and how to correctly conduct a research and scientific search.

6. RECOMMENDED LITERATURE

Basic literature:

- 1.Nursing in dentistry: education. manual / I.P. Mazur, L.O. Shcherbak, S.V. Khlebas et al. ; under the editorship I.P. Mazur. - K.: VSV "Medicine", 2017.- 160 p. +4 p. color incl.
- 2.Nursing in dentistry / under general Ed. Prof. King M.D. – Poltava, 2019.
- 3.Nursing: a textbook (ZNZ I-III n. a.) / M.M. Kasevich, I. Pro. Petryashev, V.O. Slipchenko and others; under the editorship V. I. Litvinenko. —K.: Medical University "Medicine",3rd ed., corr.2017.-816 p.

Auxiliary literature:

1. Basics of dentistry: a textbook / V.O. Malanchuk, A.V. Borysenko, L.V. Kharkiv, etc. ; under the editorship V.O. Malanchuk K.: "Medicine", 2009.- 592 p.

2. Pavlenko L.G. Prevention of dental diseases / L.G. Pavlenko - Poltava, 2008. - 67 p.
3. Therapeutic dentistry: equipment and tools: Training manual./V.I. Gerelyuk, N.V. Neiko, V.V. Materynskyi, O.P. Kobrin: - Ivano-Frankivsk, 2002. - 95 p.
4. Radiographic studies in dentistry: recommendations for selection of patients and limitation of radiation exposure. Educational and methodological manual for intern doctors in the specialty "Dentistry" and dentists. Under the editorship of prof. Sokolova II. Kharkiv KhNMU. 2020, 64 p.
5. Kaskova L.F., Babina O.O., Amosova L.I. Industrial practice as a dental nurse - Poltava, 2009. - 138 p.
6. Clinical and dental aspects of HIV-infection/AIDS: a study guide for students of dental faculties of higher medical educational institutions of the IV level of accreditation, dental interns and dental professionals / I. I. Sokolova, S. I. Herman, O. Yu. Stoyan, O. G. Denisova, T. V. Tomilina. - Kharkiv: KhNMU, 2011. - 152 p. : fig.
7. Sanitary - epidemic regime in a medical and preventive institution. Disinfection and sterilization // In book.: Nursing: Textbook / G.L. Apanasenko, S.A. Bogush, N.M. Troscinska, etc./ Ed. M.G. Shevchuk - K.: Health. - 1994. - 496 p.
8. Emergencies in general medical practice: training. manual : in 2 vols. Vol. 2. / B. M. Zhdan [etc.] ; ed. B. M. Zhdan; Ukraine honey. stomatal academy. — 2nd ed., supplement. and processing. — Lviv: Magnolia 2006. — 2020. — 280 p. — Bibliogr.: p. 267-279.
9. Emergencies in general medical practice: training. manual : in 2 vols. Vol. 1. / B. M. Zhdan [etc.] ; ed. B. M. Zhdan; Ukraine honey. stomatal academy. — 2nd ed., supplement. and processing. — Lviv: Magnolia 2006. — 2020- 256 p. — Bibliogr.: p. 248-255.
10. Kasevich, N. M. Nursing ethics and deontology [Text]: textbook for students of higher medical educational institutions of the I-III levels of accreditation / N. M. Kasevich. — 3rd ed., corr. - Kyiv: VSV "Medicine", 2013. - 200 p.
11. Nursing Ethical Considerations. Lisa M. Haddad; Robin A. Geiger. <https://www.ncbi.nlm.nih.gov/books/NBK526054/#:~:text=Nurses%20are%20advocates%20for%20patients,This%20is%20known%20as%20autonomy.> August 14, 2023.

7. INFORMATION RESOURCES.

1. All-Ukrainian electronic library <http://youalib.com/meditsyna/obstetrics-and-gynecology>
2. Textbooks on medicine <http://www.ex.ua/74367524>
3. KhNMU repository <http://repo.knmu.edu.ua>.
4. Electronic resource
[https://dspace.uzhnu.edu.ua/jspui/bitstream/lib/23603/1/Pages%20from%20Med-Sestra-03-2014_inet.pdf]
5. Electronic resource [<https://www.researchgate.net/profile/Aidyn->

Salmanov/publication/308416633_Sanitarno-gigienicnij_ta_protiepidemicnij_rezim_u_stomatologii/links/57e3d1b108ae4d15ffae8d3d/Sanitarno-gigienicnij-ta-protiepidemicnij-rezim-u-stomatologii.pdf]

6. Electronic resource

[https://www.youtube.com/watch?v=YNfzA3FQOhs&ab_channel=%D0%A1%D0%B5%D0%BA%D1%80%D0%B5%D1%82%D0%B8%D0%BC%D0%B5%D0%B4%D0%B8%D1%86%D0%B8%D0%BD%D0%B8].

7. Electronic resource [<https://www.medsprava.com.ua/article/565-standarti-sestrinskogo-doglyadu-u-stomatolog-zrazki>].

8. Electronic resource

[https://www.youtube.com/watch?v=gPUmMXdm0dY&ab_channel=%D0%A1%D0%B5%D0%BA%D1%80%D0%B5%D1%82%D0%B8%D0%BC%D0%B5%D0%B4%D0%B8%D1%86%D0%B8%D0%BD%D0%B8].

9. Electronic resource

[https://www.youtube.com/watch?v=vxDzktXNf74&ab_channel=TVRivne1%2F%D0%A0%D1%96%D0%B2%D0%BD%D0%B51].

10. Electronic resource

[https://issuu.com/novaknyha/docs/kupnovucka_kononenko_nevidkla].